Report Outline and Reviewer Assignments for Director's CD-1 Review of NOvA February 28-March 2, 2006

Executive Summary	Ed Temple
1.0 Introduction	Dean Hoffer
2.0 Science	Heidi Schellman,
	and All
3.0 Site and Building (WBS 1/2.1)	Karen Hellman, Elaine
	McCluskey
4.0 Commodities – Scintillator/Fiber/PVC (WBS 1/2.2, 1/2.3 & 1/2.4)	Linda Stutte,
	Joe Ingraffia
5.0 Extrusion Module Production (WBS 1/2.5)	<u>Dmitri Denisov</u> ,
	Heidi Schellman
6.0 Electronics, Trigger DAQ (WBS 1/2.6 & 1/2.7)	Jonathan Lewis,
	Erik Gottschalk
7.0 Far and Near Detector Assembly (WBS 1/2.8 & 2.9)	Richard Boyce, Charlie
	Cooper
8.0 Project Management (WBS 1.9 & 2.10)	Mike Lindgren,
	Ed Temple
9.0 Cost and Schedule	<u>Jeff Sims</u> ,
	Dean Hoffer,
10.0 Charge Questions	
<u>TECHNICAL</u>	
10.1 Are the requirements that form the basis for the design and engineering	Heidi Schellman
phase of the project clearly documented?	
10.2 Does the conceptual design satisfy the performance requirements?	
10.3 Has a Conceptual Design Report (CDR) been developed that includes a	Mike Lindgren
clear and concise description of the alternatives analyzed, the basis for the	
alternative selected, how the alternative meets the approved mission need?	
10.4 Has the Project employed value management as early as possible in the	
project development and design process so recommendations can be	
included in the planning and implemented without delaying the progress of	
the project or causing significant rework of completed designs?	
10.5 Has the Project identified specific standards which include codes,	Elaine McCluskey
standards, regulations, and needed discipline (electrical, mechanical, nuclear,	
fire, radiation control, etc.) requirements to procure, fabricate, construct,	
inspect, and test the components, subsystems, and systems?	D: 1 1D / / ::
10.6 Can the conceptual design be built? Does the design meet the	Richard Boyce/ All
technical specifications? Is it a reasonable design?	

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10.7 Does the conceptual design report and supporting documentation adequately justify the stated cost range and project duration?	Jeff Sims/ All
10.8 Has the project developed a life-cycle cost estimate that includes costs	
for research and development, construction, operations and	
decommissioning?	
10.9 Do the cost estimates for each WBS (or cost) element have a sound	
documented basis and are they reasonable?	
10.10 Does an obligation profile exist?	Mike Lindgren
10.11 Has the project established a realistic cost estimate for the work	Jeff Sims/ All
associated with performing Preliminary Design, Final Design and Value	
Management activities to request an appropriate level of PED (Project	
Engineering and Design) Funds?	
SCHEDULE	
10.12 Does the Project's Work Breakdown Structure (WBS) define the total	Dean Hoffer/ All
scope of the project as a product-oriented family tree composed of hardware,	
software, services, data, facilities and other components?	
10.13 Is a schedule developed and resource loaded?	
10.14 Are the activity durations reasonable for the assumed resources?	
10.15 Is the schedule duration feasible for the resources assigned to	
accomplish the tasks?	
10.16 Does the schedule contain appropriate levels of milestones, sufficient	
quantity of milestones for tracking progress and do they appear to be	
achievable?	
10.17 Does the schedule include activities for design reviews, which include	
assessment of the designs readiness for procuring prototypes and	
preproduction materials?	
10.18 Has the activities associated with the Preliminary Design, Final	
Design and Value Management activities been appropriated identified in the	
schedule so they can be properly tracked if PED funds are used?	
<u>MANAGEMENT</u>	
10.19 Is there an appropriate management organization structure in place	Mike Lindgren
with the responsibilities defined and documented for the scope of work?	
10.20 Does the proposed project team have adequate management	Mike Lindgren/ Ed
experience, design skills, and laboratory support to produce a credible	Temple
technical, cost, and schedule baseline?	
10.21 Are ES&H aspects being properly addressed and are future plans	Elaine McCluskey/
sufficient given the projects current stage of development?	Richard Boyce
10.22 Is the documentation required by DOE O 413.3 in order and ready for	Mike Lindgren
Approval of CD-1?	
10.23 Are there adequate staffing resources available or planned for this	
effort?	
10.24 Is there a funding plan available or proposed to meet the resource	
requirements to realize the project?	
10.25 Has Risk Management been performed which includes risks	
assessments on each potential design alternative as a factor in selecting	
which alternative is to be pursued?	
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• Note underlined names are the primary writer.